



Borland® Delphi™

RADical performance Windows and client/server development tools

Delphi and Delphi Client/Server are the only development tools that provide the Rapid Application Development (RAD) benefits of visual component-based design, the power of an optimizing native code compiler and a scalable client/server solution.

Delphi and Delphi Client/Server represent the next generation in:

- *Performance—with the world's fastest compiler*
- *Rapid Application Development—via visual Two-Way-Tools™*
- *Component Reuse—a true object-oriented environment*
- *High-performance client/server development*

The fastest way to the fastest applications

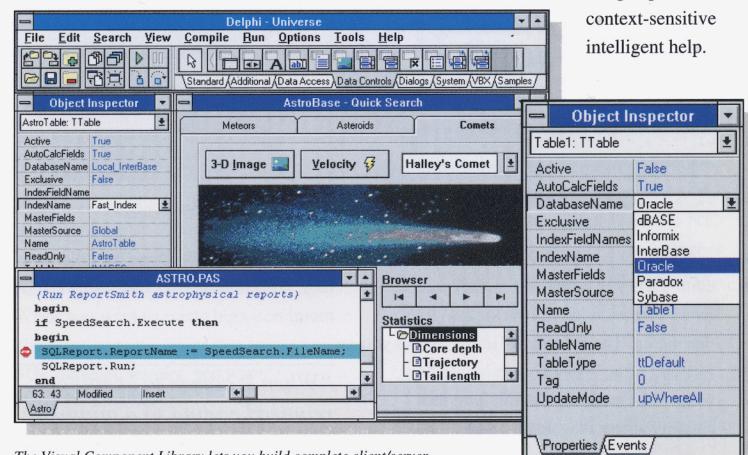
Delphi and Delphi Client/Server are the next-generation visual development tools, combining the most intuitive visual design environment, the unrivaled performance of a world-class optimizing native code compiler, and complete client/server support. They compile Windows applications at more than 350,000 lines per minute.* An automatic MAKE facility ensures that only code that has been changed is recompiled for maximum efficiency, and the built-in assembler

"It's going to change our lives, you know."

—J.D. Hildebrand, Editor
Windows Tech Journal

RAD, from prototype to production

The comprehensive suite of visual design and debugging tools accelerate development so you move seamlessly from prototyping to deployment. You'll create high-performance applications in record time with the gallery of reusable forms, project templates, programming experts, and context-sensitive intelligent help.



The Visual Component Library lets you build complete client/server applications quickly.

allows for ultimate fine-tuned performance.

The resulting executable files (EXEs) are lean, highly efficient, and run **10 to 20 times faster** than interpreted p-code. Delphi EXEs are immediately deployable, **royalty-free**, and require no runtime interpreter Dynamic Link Library (DLL), so maximum performance is guaranteed.

Delphi Client/Server includes native SQL Link drivers for Oracle, Sybase, Informix, and InterBase.

And smart **computer-based tutorials** guide you through your project and help explain concepts.

The **Object Inspector** provides complete access to properties and events of a selected component, with smart Property Editors for

rapid design changes. The **Project Manager** provides an overview of all forms and code for a development project, while the **ObjectBrowser™** provides a graphical view of the overall object hierarchy.

The sophisticated **GUI Debugger** jumps directly to the point in the source code where problems occur, so you can find and fix problems quickly and easily. And full support for **conditional breakpoints**, watchpoints, call stack monitoring, single-step execution, and trace mode are included.

source code editor is rapid and intuitive. It supports advanced editing features such as Color Syntax Highlighting, macro recording, column block marking, and regular expression support.

Reuse components to maximize productivity

The comprehensive **Visual Component Library** (VCL), a collection of more than 75 objects such as dialogs, buttons, and list boxes, includes a host of additional reusable

"Delphi gives developers exactly what they need to create complete applications, posthaste."

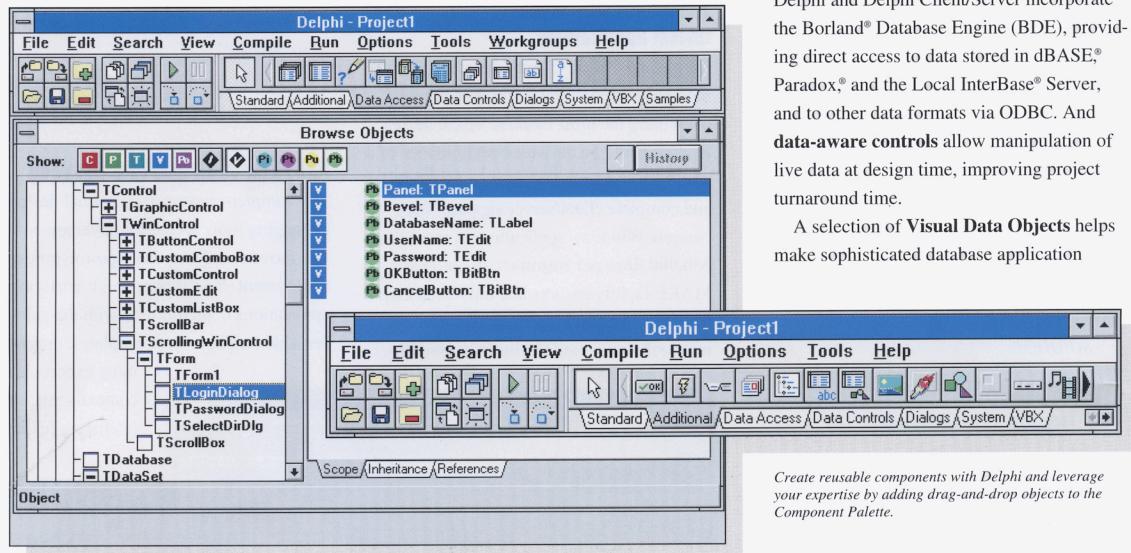
—Susan Ryan
InfoWorld

allows you to seamlessly integrate DLLs, VBX controls, and OLE 2.0 servers into your applications.

Integrated database support and reporting capabilities

Delphi and Delphi Client/Server incorporate the Borland® Database Engine (BDE), providing direct access to data stored in dBASE®, Paradox®, and the Local InterBase® Server, and to other data formats via ODBC. And **data-aware controls** allow manipulation of live data at design time, improving project turnaround time.

A selection of **Visual Data Objects** helps make sophisticated database application



Analyze and manage your object hierarchy visually with the **ObjectBrowser** in Delphi.

A suite of powerful Windows resource editors lets you create and modify menus, icons, cursors, and bitmaps for low-level debugging. The **WinSight™** utility allows you to monitor the Windows messaging flow, while **WinSpector™** instantly provides comprehensive diagnostic details.

Visual Two-Way-Tools for power programming

With Delphi and Delphi Client/Server, you can always get to your code, and everything you can do visually can also be done in code. Innovative **Two-Way-Tools** maximize your productivity by letting you move seamlessly between the visual design environment and the synchronized underlying source code.

Switching between the visual design mode and the intelligent **BRIEF®-style**

objects including database controls, notebook tabs, grids, multimedia controls, and much more!

"When it comes to keeping required coding to a minimum, Delphi excels..."

—Windows Sources
December 1994

The completely customizable Integrated Development Environment can be tailored to individual or corporate preferences. Custom **reusable components** and commercial VBXs are easily added to the fully reconfigurable Component Palette. You can create and install your own application and form templates. And the component-based architecture

design a breeze. And the included **Database Desktop™** utility lets you create or restructure tables and manage connections, insulating compiled applications from changes in database locations.

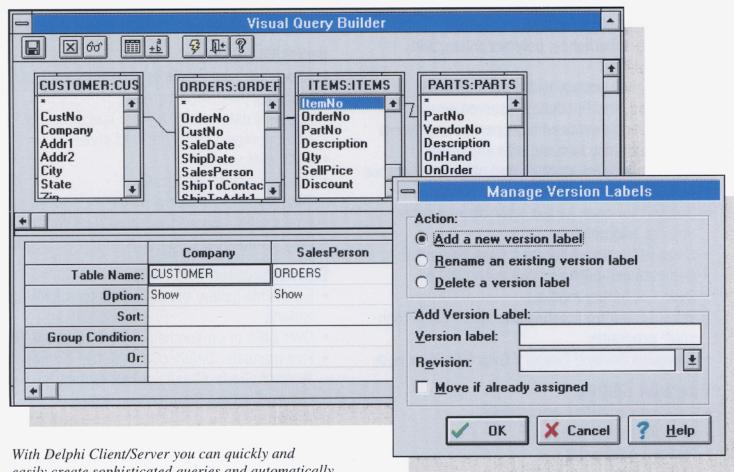
Delphi includes the PC version of ReportSmith®, Borland's award-winning database reporting and query tool that supports **live data access** at design time. ReportSmith supports a wide range of popular database formats, and provides a variety of graphing, tabulating, and charting options.

The ultimate complementary tool

If you prefer to work with a variety of programming tools, Delphi and Delphi Client/Server are the perfect additions to your toolset. They allow you to create **reusable DLLs** that can be called from applications built with C++, Paradox, dBASE, PowerBuilder, Visual Basic, and other

popular development tools. They can also use standard VBX controls, OLE 2.0 servers, DLLs created by other development tools, Microsoft multimedia, MAPI, and pen computing APIs. No matter what you program with today, the **component-based design** makes Delphi and Delphi Client/Server valuable additions that leverage your existing investment in code.

You get the control and flexibility you demand with complete access to the



With Delphi Client/Server you can quickly and easily create sophisticated queries and automatically generate the corresponding SQL code.

Windows API, while remaining shielded from the complexities of Windows programming.

Object-Oriented Programming

The underlying Object Pascal language has been enhanced to fully support **exception handling**. General protection faults, disk I/O errors, and other dreaded problems are automatically trapped. And it offers all of the benefits of a structured programming language and a **true object-oriented development tool**, including polymorphism, inheritance, and encapsulation. So applications are incredibly robust and deliver superior solutions for all of your mission-critical projects.

Enhanced compiler features such as **conditional compilation** and **smart linking** make it even easier to rapidly design professional applications intended for a variety of target environments.

Smooth scaling

Delphi provides the easy path to client/server. Transparent local SQL development is easy with the built-in Local InterBase Server, which enables you to rapidly develop high-performance ANSI-92 compliant applications for standalone systems.

The transition from Delphi to Delphi Client/Server is a quick and easy process requiring no additional coding. So now you can instantly begin developing professional

Delphi Client/Server includes the integrated Borland SQL Links 2.5 which incorporates a comprehensive set of high-performance **native**

drivers that interact directly with Oracle, Sybase, MS SQL Server, Informix, and InterBase servers, for easy development and **unlimited royalty-free deployment across servers**. You also get the Local InterBase Deployment Kit so you can distribute the Local InterBase Server with your applications royalty-free.

Integrated support for **team development** with check-in, check-out and version control is included. The **Visual Query Builder** allows you to graphically set up complex database queries, and instantly generate the appropriate SQL commands. And the Visual Component Library source code is included with Delphi Client/Server to give you a head-start on your applications.

ReportSmith 2.5 SQL version supports a wide range of server formats, and provides graphing, tabulation, and charting options.

And all of your Delphi Client/Server applications can be deployed royalty-free.

If you need to access corporate data on servers, you need Delphi Client/Server.

Delphi Client/Server allows teams of developers to work together with integrated source code check-in, check-out and version control management, simplifying the complex client/server development process.

client/server applications using external database hosts.

Accelerate into client/server

When you want to create high-performance client/server applications that access remote SQL database servers, you want

Delphi Client/Server.

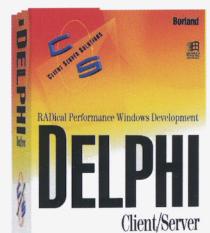
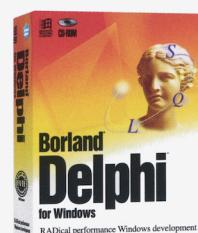
Windows 95 Compatible

Fast track to Windows 95

Delphi applications developed for the Windows 3.1 operating environment will also run under Windows 95 and Windows NT. Upgrading them to full 32-bit performance simply involves a **single-click recompile** with the forthcoming Windows 95 version of Delphi. No rewriting of code is necessary!

“★★★★★—Excellent”

—PC/Computing
February 1995



Delphi Client/Server Includes:

- The complete feature set found in Delphi
- NEW! SQL Links 2.5—High-performance native drivers for Oracle, Sybase, MS SQL Server, Informix, and InterBase; heterogeneous joins using both local and remote SQL data, and updateable SQL queries
- Unlimited royalty-free distribution across servers
- Local InterBase Deployment Kit
- Team development with check-in, check-out, and version control[†]
- Visual Query Builder
- ReportSmith 2.5 SQL version, award-winning report writing tool
- Visual Component Library source code
- Royalty-free EXEs

Delphi Specifications

Optimizing Native Code Compiler

- Compiles at over 350,000 lines per minute*
- Create fast standalone EXEs with no runtime interpreter Dynamic Link Library (DLL)
- Applications run up to 10 to 20 times faster than interpreted p-code
- Create DLLs that work with C++, dBASE, Paradox, Visual Basic, PowerBuilder, and others
- Access to all Windows API functions and messages
- Optimized case statements, sets, 32-bit math operations, string and file routines, and more
- Automatic built-in MAKE facility
- Smart Linker removes unused objects and code
- Built-in assembler for tuning performance

Integrated Development Environment

- Integrated visual form designer
- Two-Way-Tools automatically synchronize code and visual representations
- Object Inspector allows visual customization of components without writing code
- Built-in tools for alignment, scaling, and tab order
- ObjectBrowser displays object hierarchy, units, globals, and code references
- Project Manager displays all files and forms
- Fully customizable environment
- Open environment for adding your own tools, experts, components, and Property Editors

Visual Component Library (VCL)

- Over 75 reusable components
- Support for the latest Microsoft systems technologies including OLE 2.0, DDE, VBXs, DLLs, MAPI, and ODBC
- Standard components for menus, buttons, masked edit fields, panels, graphics, notebook tabs, grids, outlines, list boxes, and more

- Visual Data Objects for accessing databases, tables, queries, reports, SQL stored procedures, data-aware grids, navigators, and more
- "Live" design-time data access
- Extend the VCL with third-party libraries or with your own objects created with Delphi
- Database Field Editor
- Standard dialog objects
- System objects for accessing OLE 2.0 servers, DDE, multimedia and file, and directory lists
- Support for MDI, printing, and graphics
- 2-D and 3-D charts with included ChartFX control
- Compatible with hundreds of VBX controls
- Includes sample objects with source code
- VCL source code available separately

Object Pascal Language

- Structured, object-oriented language
- Supports inheritance, polymorphism, and encapsulation
- Control over privacy with Public, Private, Protected, and Published reserved words
- Create components with properties and events
- Use inheritance to customize any object
- Runtime type information and object persistence
- Automatic, extensible exception handling
- Support for open arrays, user-defined types, objects, and pointers
- Support for delegation and class references
- Separate compilation of units and DLLs
- Over 150 library routines
- WinCRT unit for creating standard Pascal "console" programs
- Compiles Borland Pascal 7.0 for Windows code

Powerful Editing

- Full-featured BRIEF-style editing
- Unlimited undo and redo
- No limit on file size
- Macro record and playback
- Column block marking
- Regular expression (GREP-style) search
- Customizable Color Syntax Highlighting
- Selectable editor keystrokes

Integrated Debugging

- Integrated GUI Debugger
- Conditional breakpoints and watchpoints
- Call stack view for tracing code execution
- Evaluate and modify expressions and variables
- WinSight Windows message trace utility
- WinSpector postmortem analysis tool
- Compatible with Turbo Debugger® for Windows (available separately)

Borland Database Engine

- High-performance engine with native drivers for dBASE, Paradox, and Local InterBase Server
- Fully scalable support for migrating applications from desktop to client/server
- Royalty-free deployment of database engine
- Includes Database Desktop for managing database aliases as well as creating and restructuring tables

- ODBC support for Access, Btrieve, Excel, DB2, AS/400, Ingres, HP ALBASE/SQL, and gateways like IBM DDGS/2, Micro Decisionware and Sybase Net-gateway. (available separately)

Local InterBase 4.0 Server

- High-performance ANSI SQL-92 compliant
- Ideal for "off-line" development and single-user applications
- Computed fields
- Outer joins and join expressions
- Complex data including Binary Large Objects (BLOBs[®]) and multidimensional arrays
- Advanced features including stored procedures, triggers, and constraints
- Fully scalable to InterBase on NT, NetWare, and UNIX platforms
- Local InterBase Server Deployment Kit available

ReportSmith 2.5

- Award-winning database reporting and query tool
- Features "live" report writing
- Adaptive data access for any size database
- Prebuilt report templates and styles
- Multilevel sorting
- Custom group specifications
- Onscreen Print Preview mode
- Free distribution of ReportSmith runtime module
- Fully compatible with ReportSmith SQL edition

Documentation and Help

- Extensible gallery of application templates and experts
- Over 5Mb of on-line help, with Interactive Tutors
- Five manuals: *Delphi User's Guide*, *Component Writer's Guide*, *Database Application Developer's Guide*, *Creating Reports*, and *InterBase User's Guide*
- Delphi Client/Server includes the above five manuals plus: *InterBase Language Reference Guide* and *InterBase Data Definition Guide*

Minimum System Requirements

- Intel 386-based PC or higher
- Microsoft Windows 3.1 or later, 100%-compatible version
- 6Mb of extended memory or higher, 8Mb for Client/Server
- 30Mb hard disk space, 50Mb for Delphi Client/Server
- CD-ROM drive (3.5" disks available separately)

Networks Supported

Any Microsoft Windows 3.1-compatible network, including OS/2 2.1, Novell NetWare, Windows for Workgroups 3.11, and Windows NT 3.11.



Delphi is part of Borland's growing family of databases, languages, and client/server tools.

*pentium 90MHz [†]InterSolv PVCS 5.1 or later required

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